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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2022 / 2023 (TERM ID: 2230)

PIM 0245 – INTRODUCTION TO MULTIMEDIA TECHNOLOGY

(Foundation in Information Technology)

3 OCTOBER 2023

9.00am – 11.00am

(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of 3 pages (excluding the cover page) with 5 questions only.
2. Attempt **ALL** questions. All questions carry equal marks and the distribution of the marks for each question is given.
3. Please write all your answers in the Answer Booklet provided.

QUESTION 1 [10 Marks]

- a. Multimedia presentations or multimedia applications are combinations of multimedia elements. Name any **FOUR (4)** of the elements. (2 marks)
- b. Software, hardware and intangible elements are required to produce good multimedia products. Explain the meaning of intangible elements. (2 marks)
- c. Time, money and people or developer team are the three most important resources that need to be planned well when estimating the cost to develop a new multimedia project. Discuss the effects on the process of the multimedia development process if one of these resources is reduced or increased. (6 marks)

QUESTION 2 [10 Marks]

- a. What is a site map and its purpose for a website? Draw an example of a linear sitemap. (4 marks)
- b. Based on **Figure 1** below, answer the following questions.

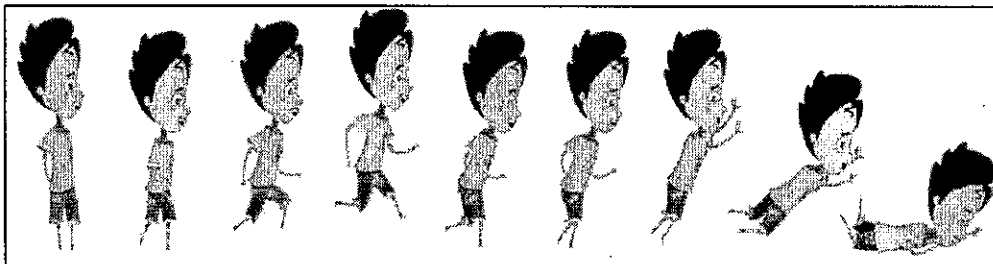


Figure 1: A series of images

- i. Explain what animation is.
- ii. Describe the motion that will be created after the images in **Figure 1** are animated.
- iii. Give **ONE (1)** reason how animation can help us. (3 marks)

Continued...

- c. Refer to **Table 1** below. The left column contains various animation software, while the right column lists the file formats that each software generates. Match the contents of the left column with that of the right columns.

Table 1: Animation software and its file format

Animation Software	File format
1. Director	A. *.pics
2. AnimatorPro	B. *.gif
3. 3D Studio Max	C. *.dir and *.dcr
4. SuperCard	D. *.fla and *.swf
5. GIF89a	E. *.max
6. Flash	F. *.fli and *.flc

(3 marks)

QUESTION 3 [10 Marks]

- a. Refer to **Table 2**. Match the words on the left with their definitions or descriptions on the right.

Table 2: Graphic terms

1. *.jpeg	A. Computer screen can display 16 colors
2. 4 bits per pixel	B. Uses combination of different colors to represent an image
3. Vector graphic	C. Compress line art well
4. Color resolution	D. Fireworks, Freehand and Illustrator
5. *.gif	E. Uses points, lines and shapes derived from mathematical formulas to represent an image
6. 1 bit per pixel	F. Also called color depth
7. Vector graphic editors	G. Compress photographs well
8. Bitmap graphic	H. Computer screen can display 2 colors

(4 marks)

- b. Provide **TWO (2)** samples of the following types of text.
- Alphabet
 - Number
 - Special Characters

(3 marks)

- c. Suggest **THREE (3)** guidelines that could be considered when using text in multimedia applications.

(3 marks)

Continued...

QUESTION 4 [10 Marks]

- a. There are several advantages and disadvantages to consider when deciding whether to include video in multimedia applications. Based on your experience, give at least **THREE (3)** advantages and **THREE (3)** disadvantages when considering putting video in multimedia applications.
(6 marks)
- b. What is capturing in video production and what type of hardware component is needed in this process?
(2 marks)
- c. Identify **FOUR (4)** most common audio formats used in multimedia productions.
(2 marks)

QUESTION 5 [10 Marks]

You are a web developer working for a renowned clothing company. Your manager has asked you to make an interactive website to promote all products in the company. Using the company's web hosting, your job involves the website development process, which consists of several stages. You are given 2-weeks to complete the project. Prepare a brief proposal to summarize the planning and the needs to complete the website project based on the following questions.

- i. Write the objectives of your project. What are the specific goals that you want the project to accomplish?
- ii. Create a Gantt chart with detailed activities
- iii. Create a sitemap.
- iv. Design the storyboard for the home page only.
- v. Decide other resources required such as hardware, software to use (such as multimedia authoring tool, audio and video editing tools, graphic software and animation program), people and cost.
(10 marks)

End of Paper